PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or	agent's file refere	nce								
DS0076		FOR	FURTHER ACTION	See Form PCT/IPEA/416						
	pplication No.		ional filing date (day/month/year,	Priority date (day/month/year)						
PCT/JP2004/000018			01.2004	07.01.2003						
International I	Patent Classificati	on (IPC) or national class	sification and IPC							
C07C 6	57/317,	59/74, C07B	61/00							
Applicant										
DAIICH	II PHARM	ACEUTICAL CO	O., LTD.							
1. This unde	1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.									
2. This	REPORT consis	ts of a total of 3	sheets, inc	cluding this cover sheet.						
3. This	report is also acc	ompanied by ANNEXES								
a.	(sent to th	e annlicant and to the In	ternational Bureau) a total of	1						
,				sheets, as follows: been amended and are the basis for this report and/or						
	shee shee	ts containing rectification uctions).	ns authorized by this Authority (s	see Rule 70.16 and Section 607 of the Administrative						
	shee the	disclosure in the internat	er sheets, but which this Authoric ional application as filed, as ind	ty considers contain an amendment that goes beyond icated in item 4 of Box No. I and the Supplemental						
b.	(sent to th	e International Bureau d	only) a total of (indicate type and r	number of electronic carrier(s))						
related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see										
	Section 802	of the Administrative In	structions).	supplemental Box Relating to Sequence Listing (see						
4. This	report contains i	ndications relating to the	following items:							
\boxtimes	Box No. I	Basis of the report								
	Box No. II	Priority								
	Box No. III	·	f oninion with repard to novelty	inventive step and industrial applicability						
	Box No. IV	Lack of unity of inve		th regard to novelty, inventive step and industrial applicability						
		·								
	Box No. V	citations and explana	ations supporting such statement	o novelty, inventive step or industrial applicability;						
	Box No. VI	Certain documents of	ited							
Box No. VII Certain defects in the international application										
	Box No. VIII Certain observations on the international application									
Date of subm	ission of the dem			641						
Date of Subili	ission of the Gem	1110	Date of completion	n of this report						
Name and ma	iling address of t	he IDE A/	And a second							
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Facsimile No			Telephone No.							

Translation

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/000018

Box	No. I		Basis of the report					
1.	With	regard	rd to the language, this report is based on the international application in the language in which it was filed, unless ounder this item.	therwise				
		This re	report is based on translations from the original language into the following language ch is the language of a translation furnished for the purposes of:					
			international search (Rule 12.3 and 23.1(b))					
			publication of the international application (Rule 12.4)					
	117i+h		international preliminary examination (Rule 55.2 and/or 55.3)					
2.	With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):							
	M	the in	international application as originally filed/furnished					
	Ш	the de	description:					
		pages	es as originally file	d/furnished				
		pages	es* received by this Authority on					
		pages	es* received by this Authority on	···				
		the cl	claims:					
		nos.	as originally file	d/furnished				
		nos.*	* as amended (together with any statement) under	r Article 19				
		nos.*	* received by this Authority on					
		nos.*						
1		the di	drawings:					
		sheet	etsas originally file	d/furnished				
İ		sheet		w turnished				
		sheet						
	\Box			· · · · · · · · · · · · · · · · · · ·				
			equence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.					
3.	ш	The a	e amendments have resulted in the cancellation of:					
			the description, pages					
 		\vdash	the claims, nos.					
			the drawings, sheets/figs					
i		닏	the sequence listing (specify):					
		Ш	any table(s) related to sequence listing (specify):					
4.		This they	is report has been established as if (some of) the amendments annexed to this report and listed below had not been y have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).	n made, since				
			the description, pages					
		Ц	the claims, nos.	 				
			the drawings, sheets/figs					
			the sequence listing (specify):					
			any table(s) related to sequence listing (specify):					
	If it	tem 4 aj	applies, some or all of those sheets may be marked "superseded."					

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/000018

Box No. V Reasoned statement citations and explan		t under Article 35(2) with regard to novelty, inventive step or industrial applicability; nations supporting such statement		
Statement				
Novelty (N)	Claims	1-10	YES	
	Claims		NO	
Inventive step (IS)	Claims	1-10	YES	
	Claims		NO	
Industrial applicability (IA)	Claims	1-10	YES	
	Claims		NO	
	Citations and expla Statement Novelty (N) Inventive step (IS)	Statement Novelty (N) Claims Claims Inventive step (IS) Claims Claims Claims Claims Claims Claims Claims	Statement Novelty (N) Claims 1-10 Claims Inventive step (IS) Claims 1-10 Claims 1-10 Claims 1-10 Claims 1-10 Claims 1-10	

2. Citations and explanations (Rule 70.7)

Documents that are cited in the international search report:

- Document 1: JP 6-157418 A (Daiichi Pharmaceutical Co., Ltd.), 03 June 1994
- Document 2: WO 95/4712 Al (Daiichi Pharmaceutical Co., Ltd.), 16 February 1995
- Document 3: GB 1594224 A (Shell Internationale Research Maatschappij), 30 July 1981

Claims 1 to 10

The method that is set forth in claims 1 to 10, wherein 2-fluorocyclopropane-1-carboxylic esters are produced by reacting a compound that is represented by formula (1) with a reducing agent in the presence of a phase transfer catalyst, is not disclosed in the documents that are cited in the international search report or in any of the documents that can be considered to be related to the invention in question, and would not be obvious to a person skilled in the art.